

1/28

FIG. 1A

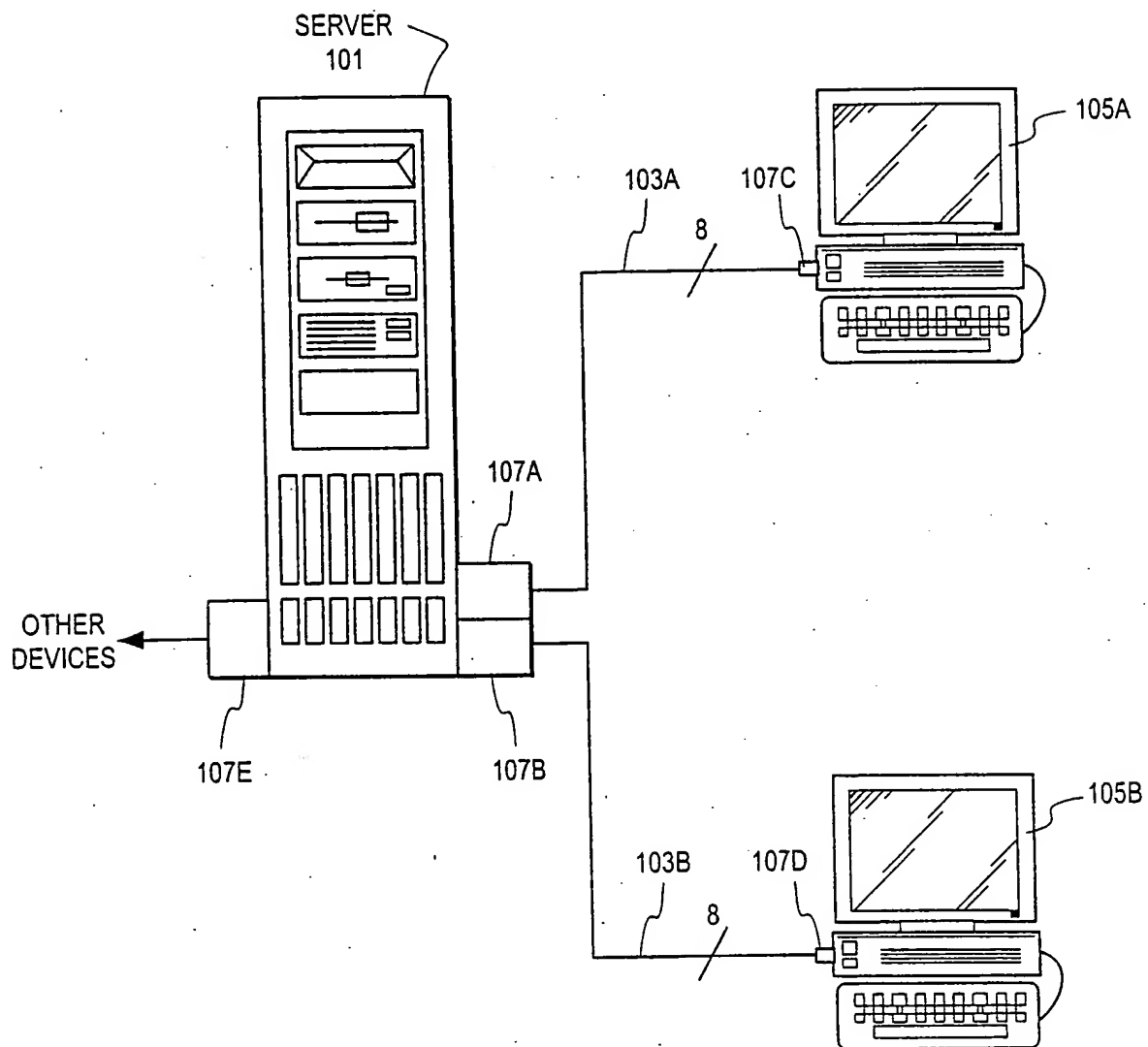
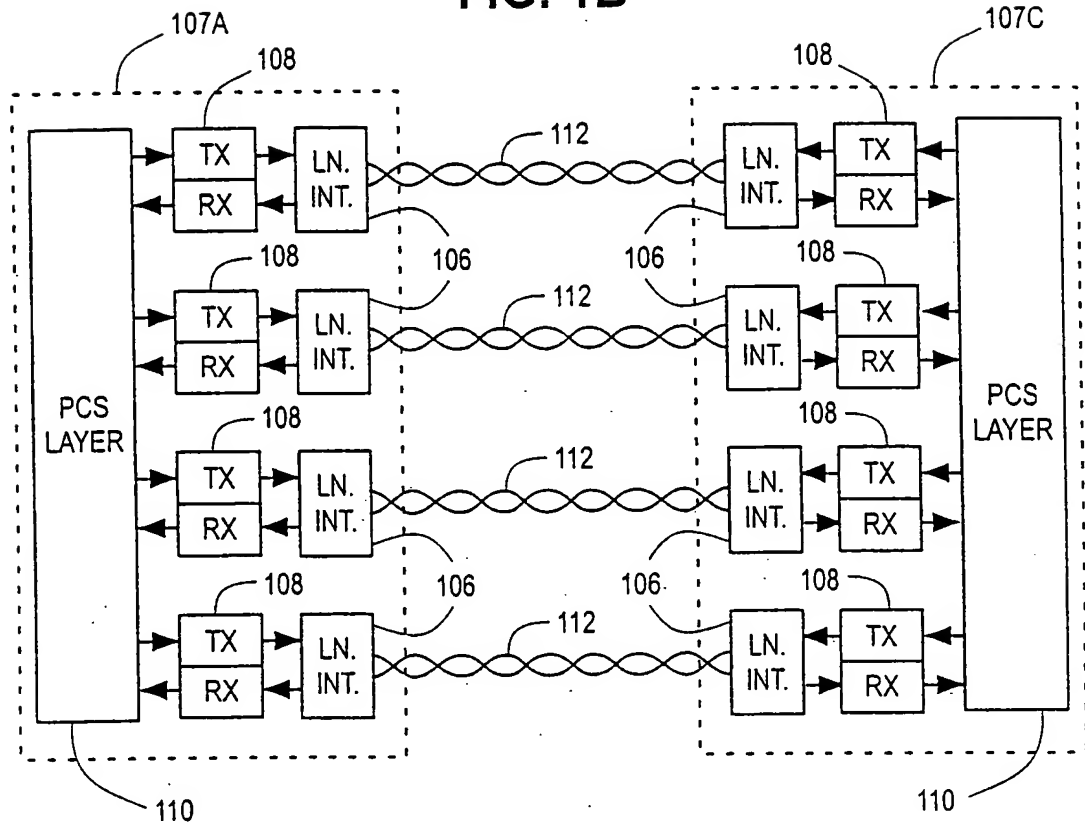
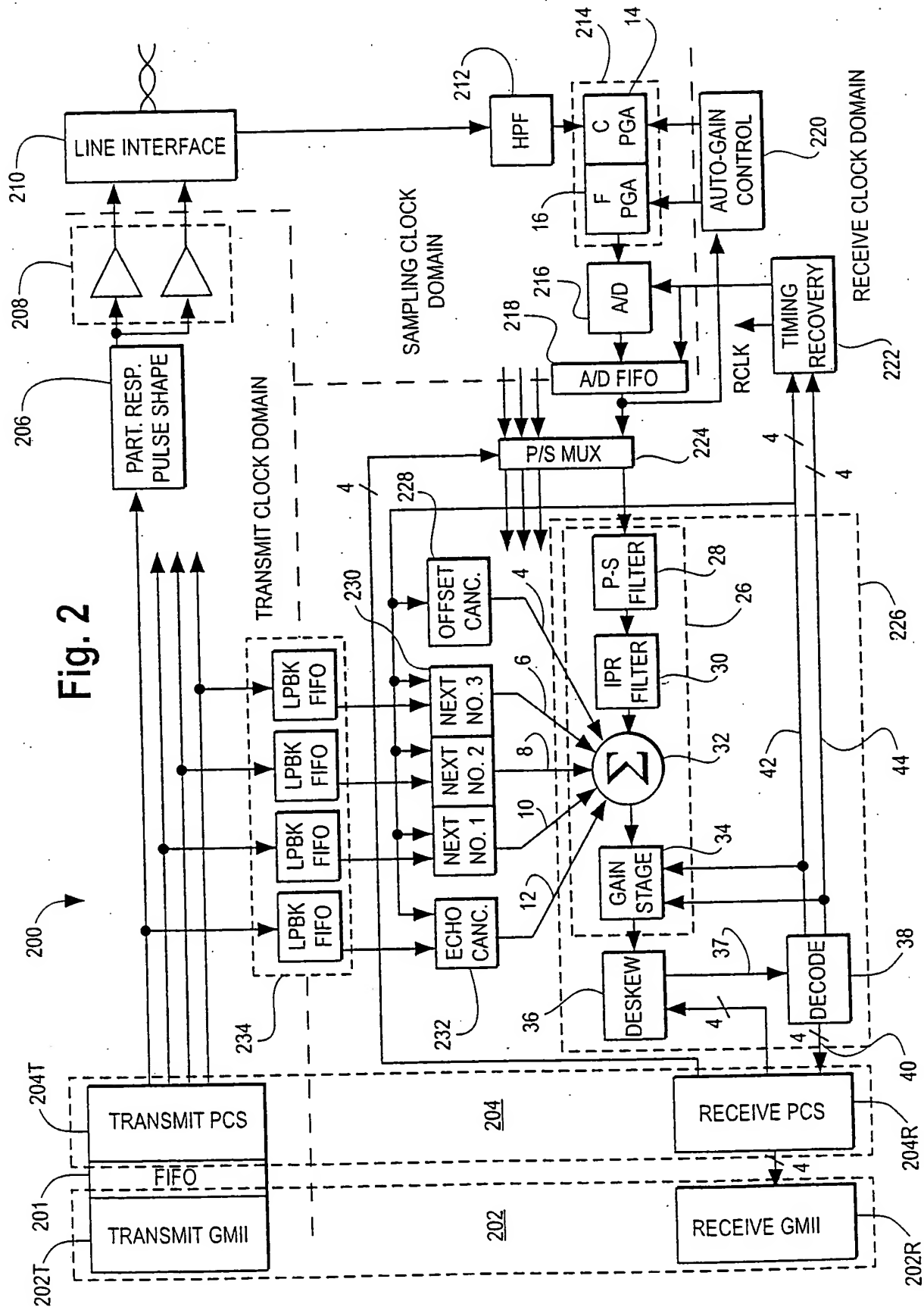


FIG. 1B





4/28

FIG. 3

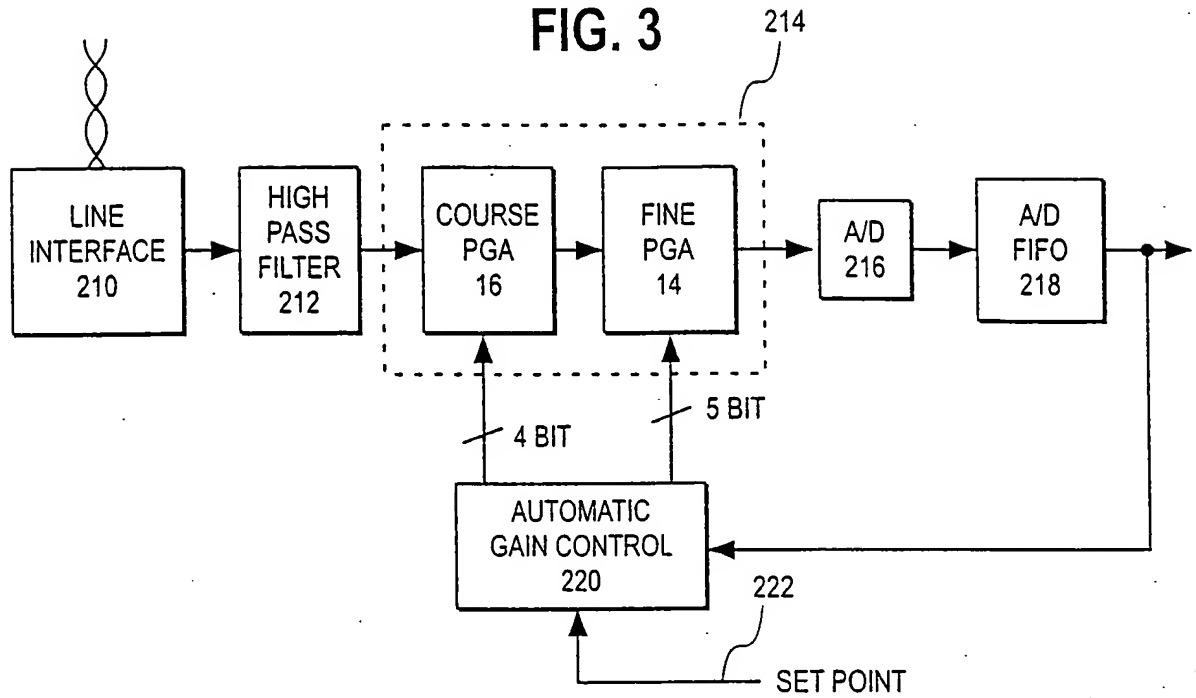
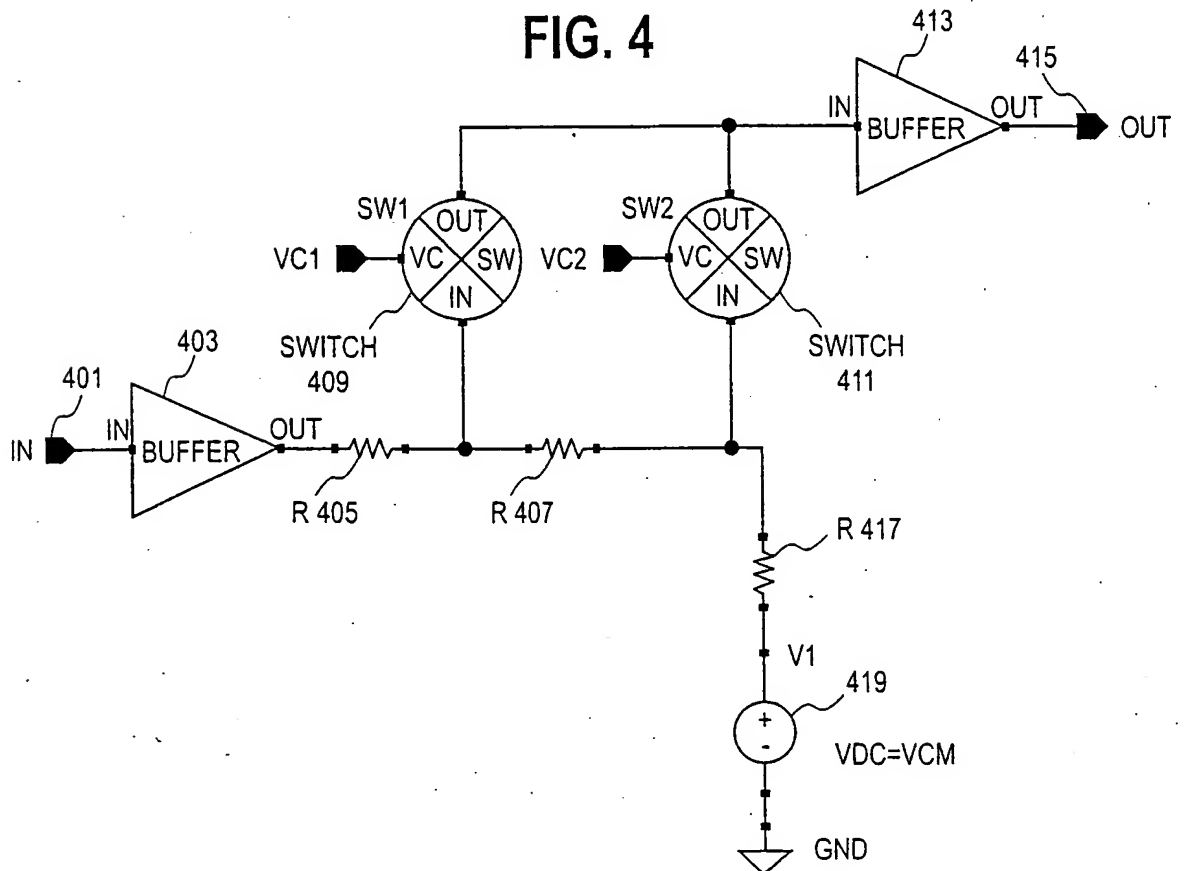


FIG. 4



5/28

FIG. 5

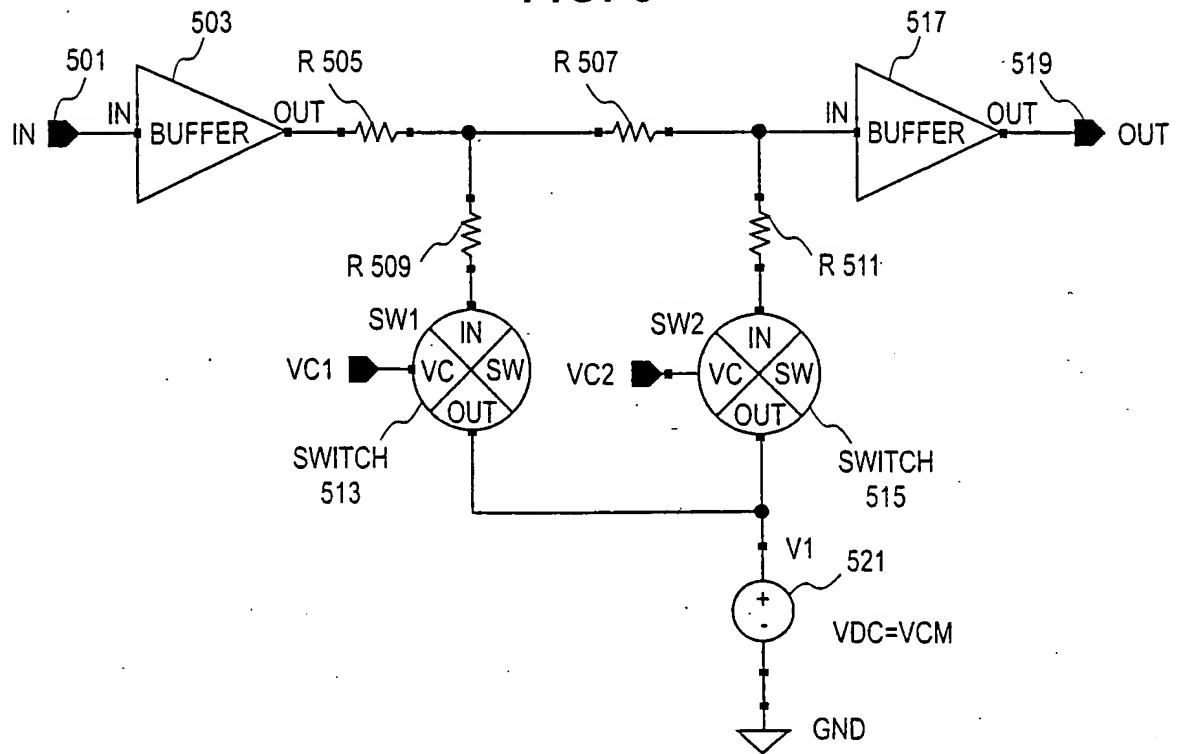


FIG. 6

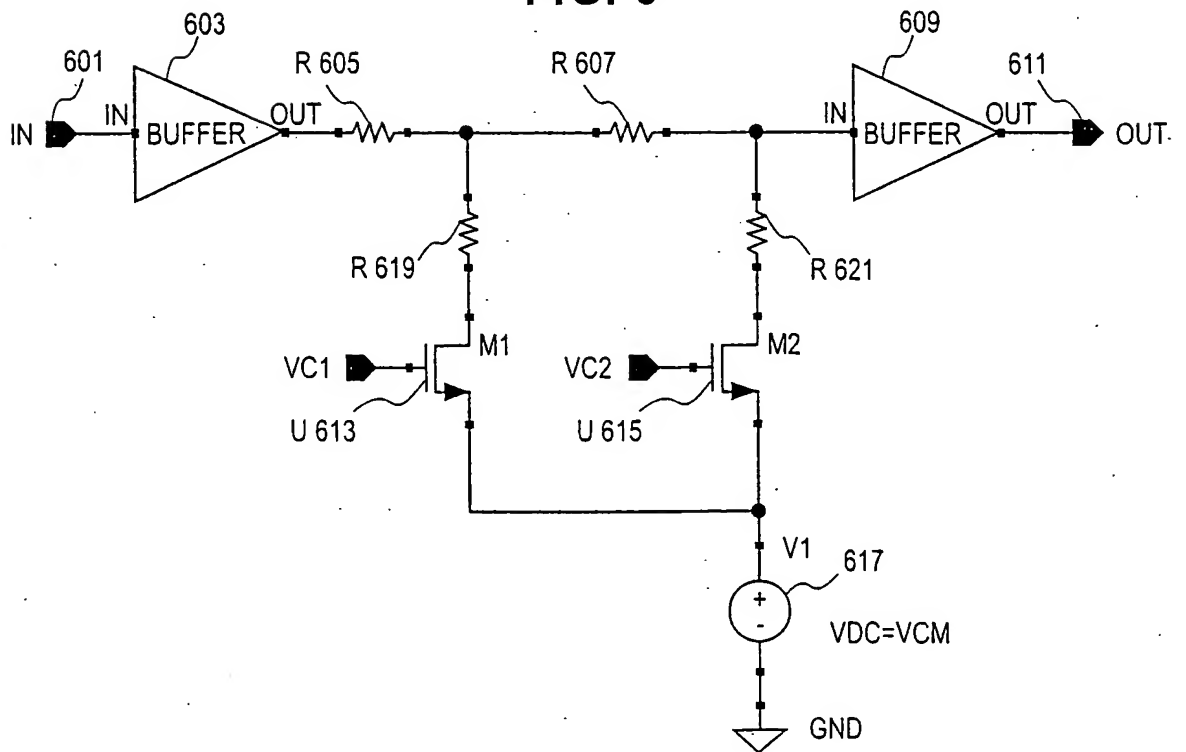


FIG. 7

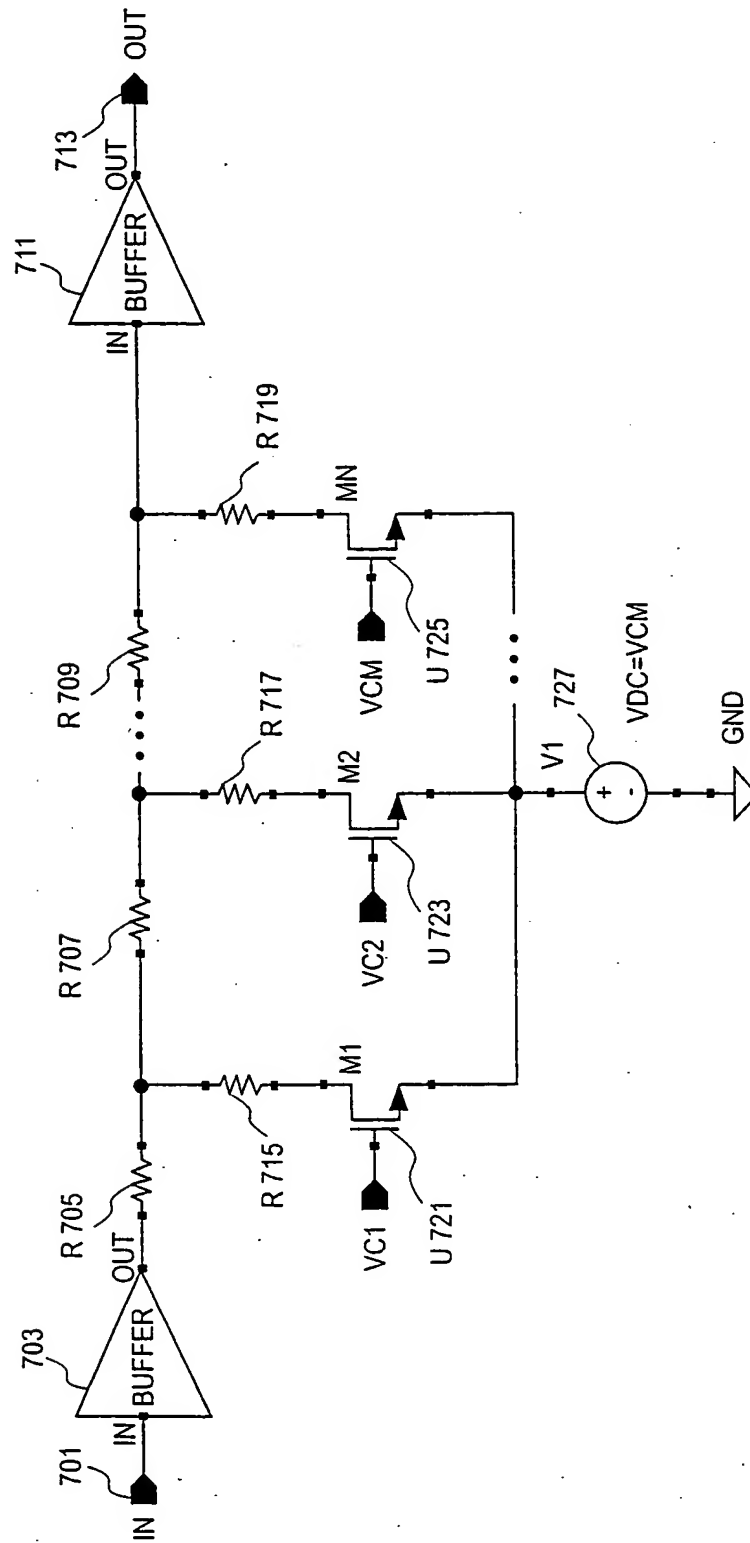
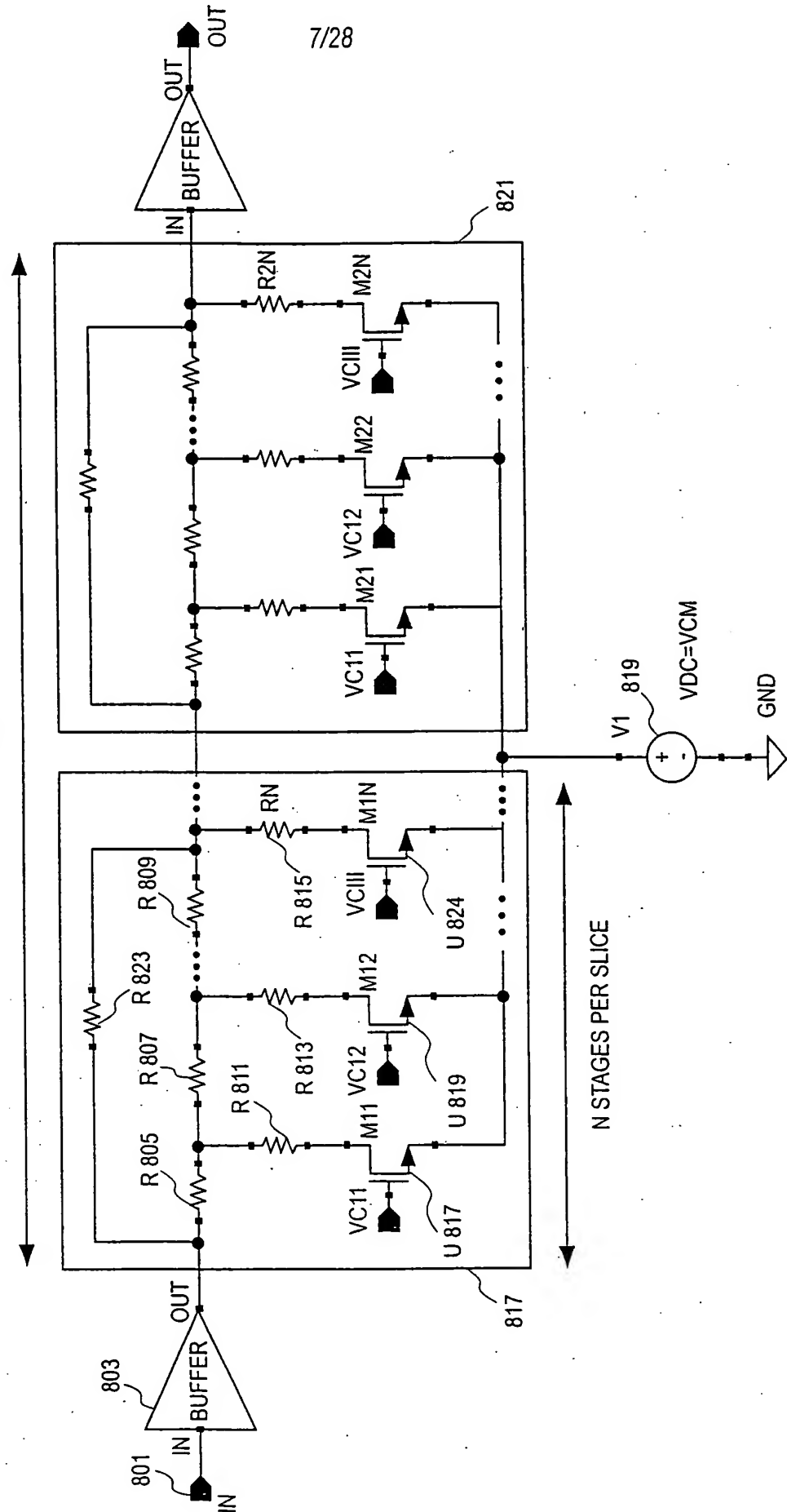


FIG. 8

JSLICES



8/28

FIG. 9
 PRIOR ART

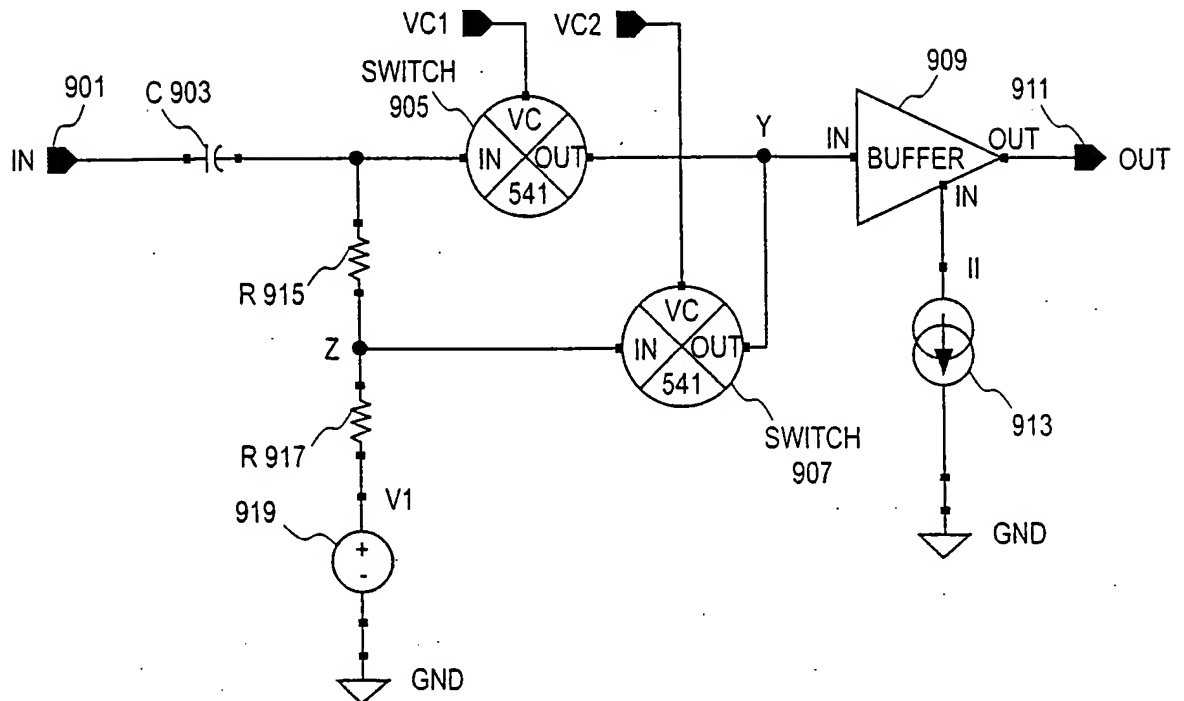
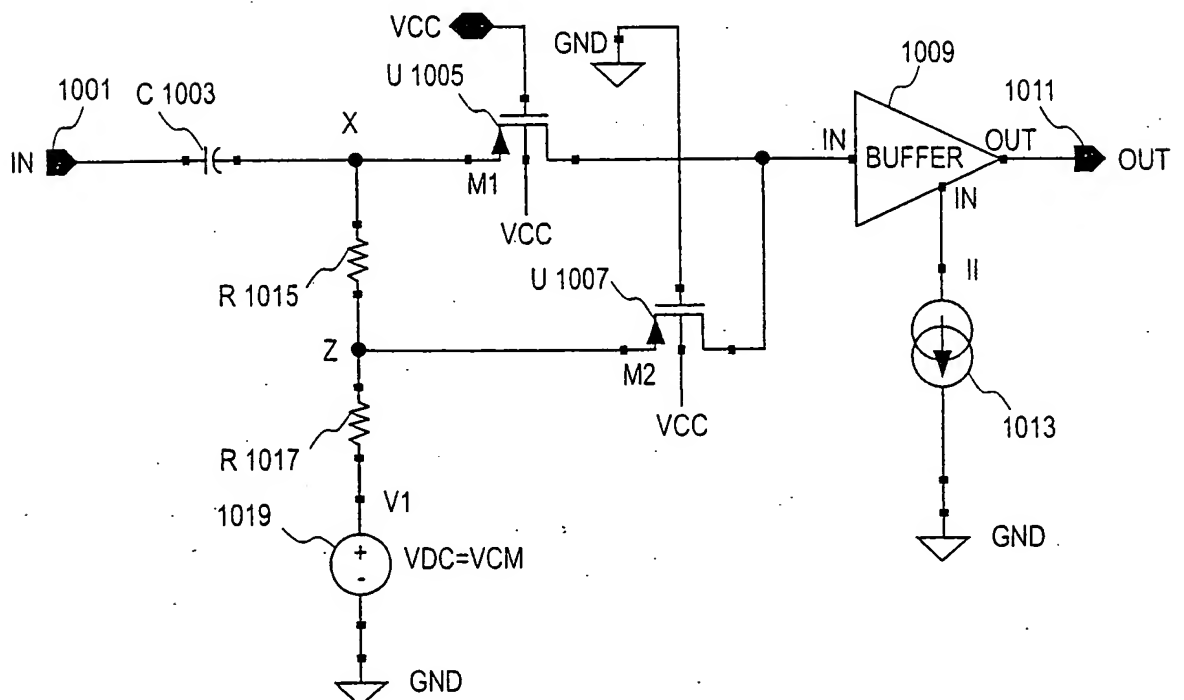
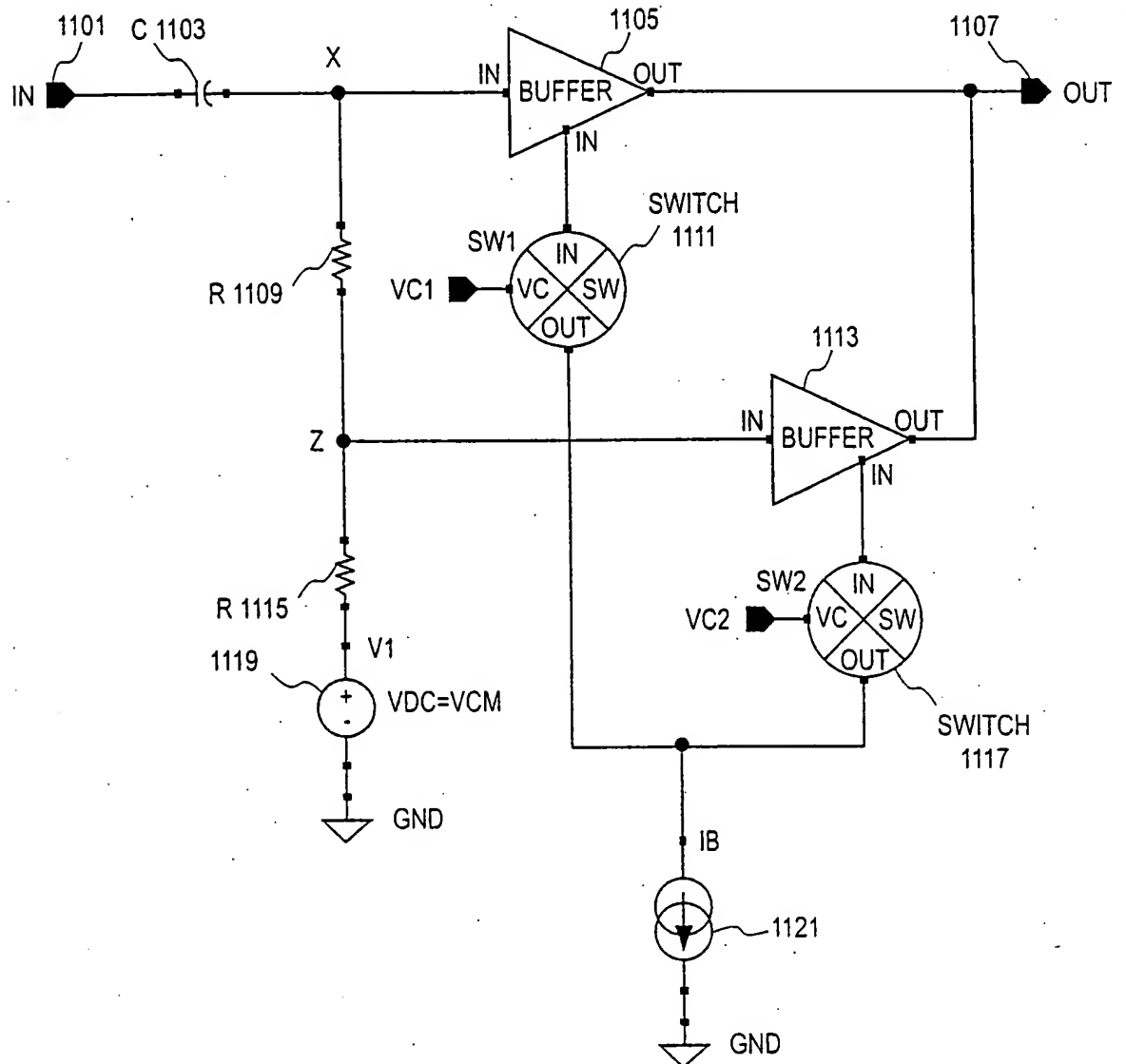


FIG.10
 PRIOR ART



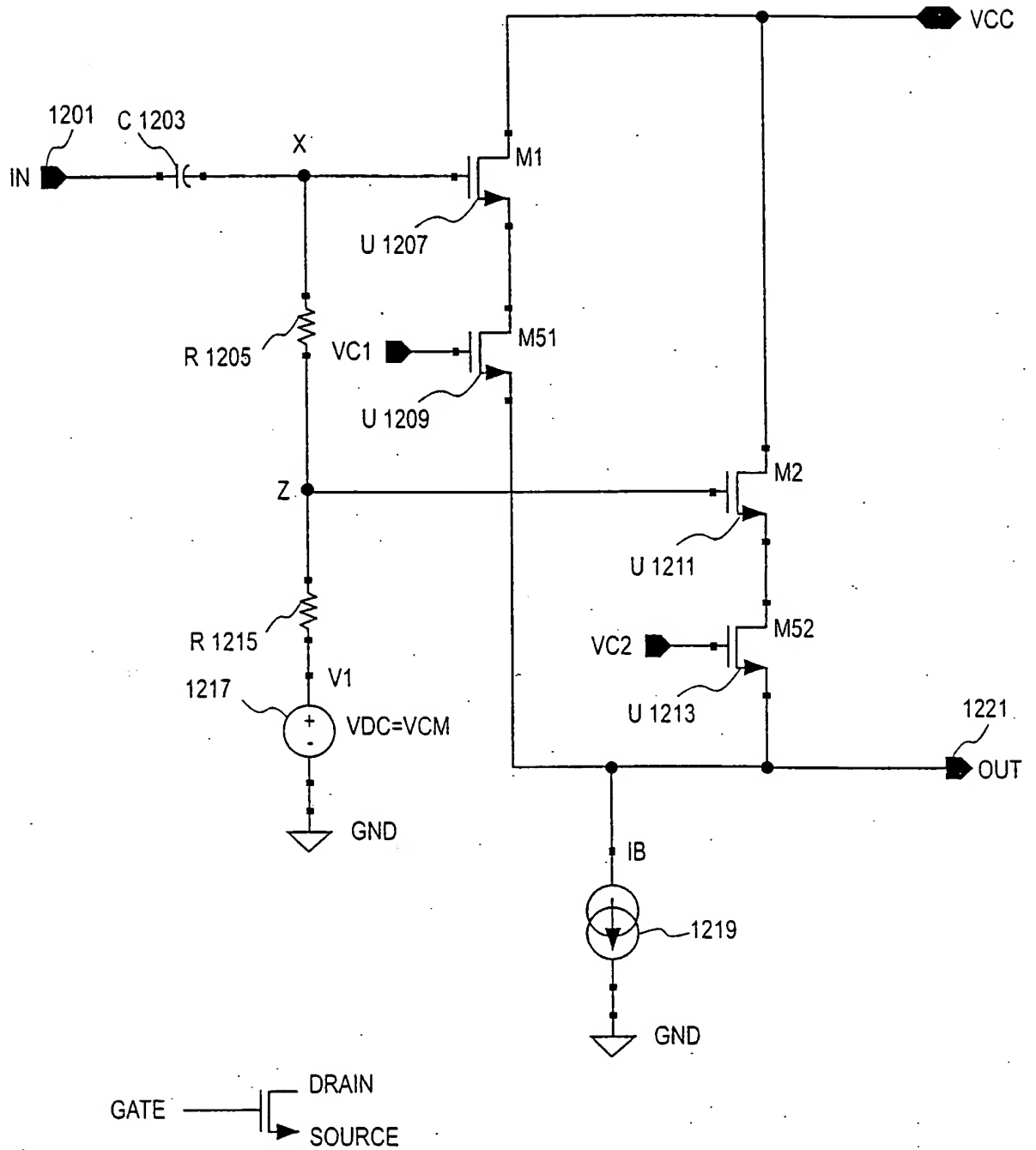
9/28

FIG. 11



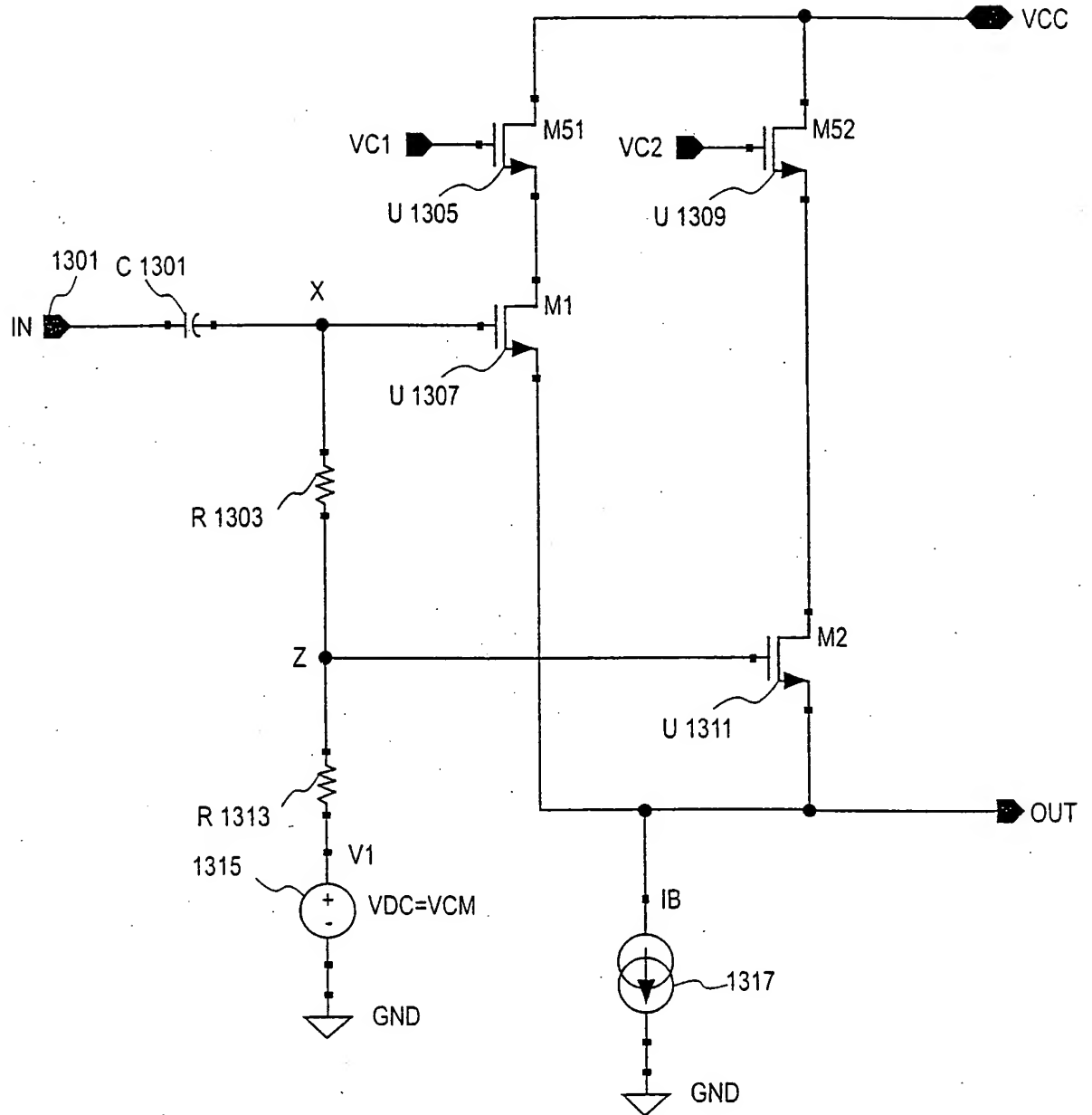
10/28

FIG. 12



11/28

FIG. 13



12/28

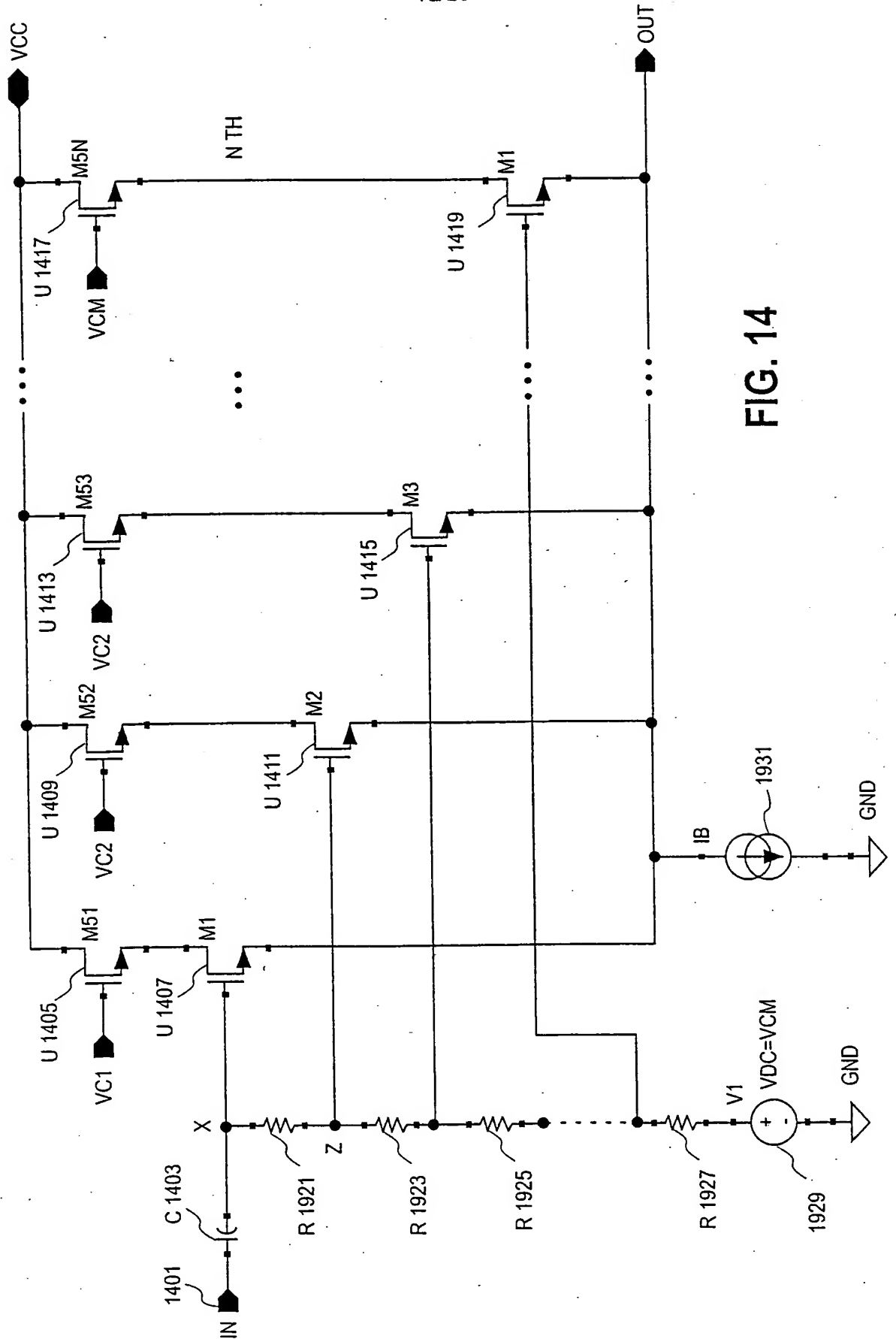


FIG. 14

13/28

FIG. 15

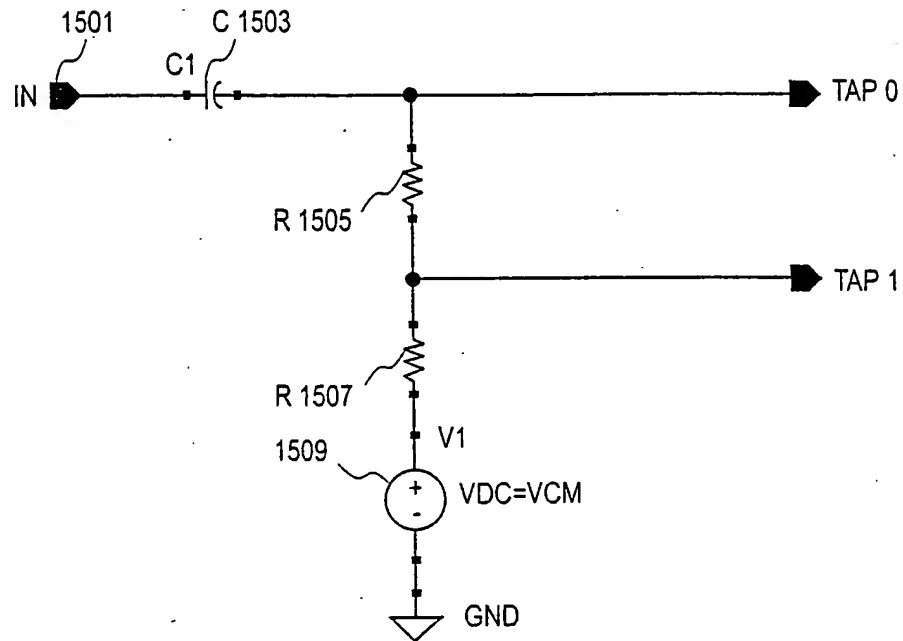
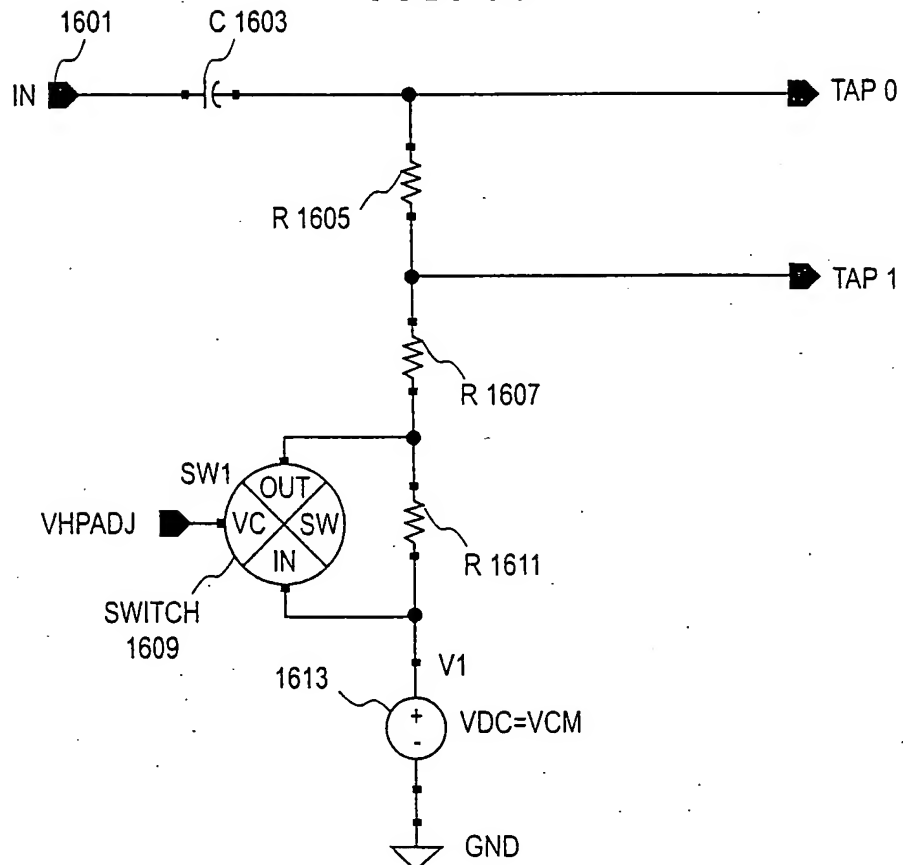


FIG. 16



14/28

FIG. 17

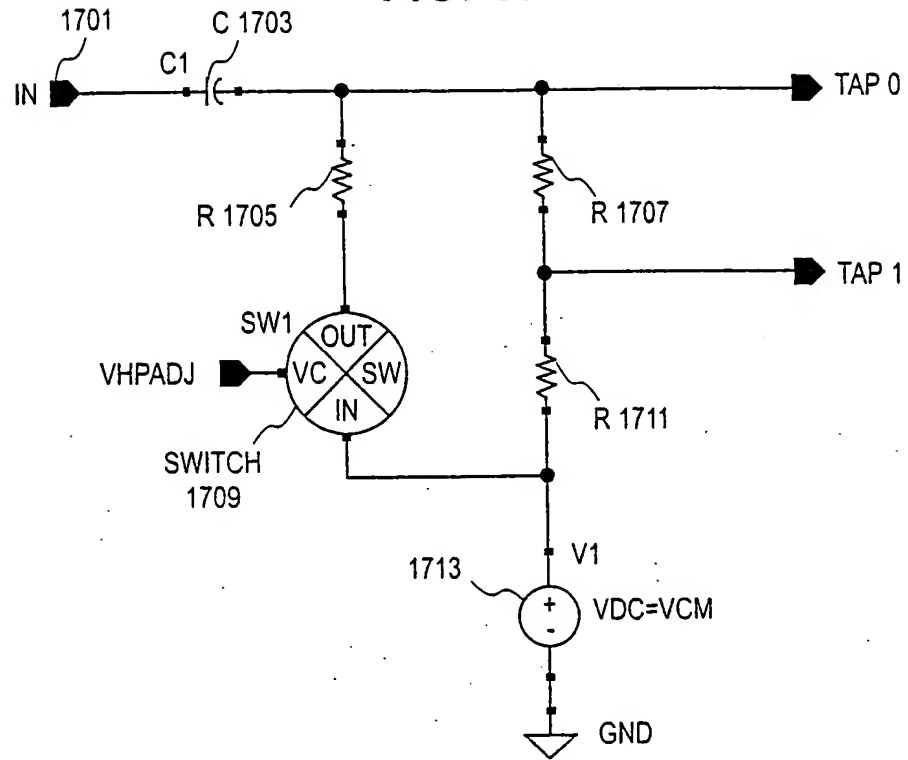


FIG. 18

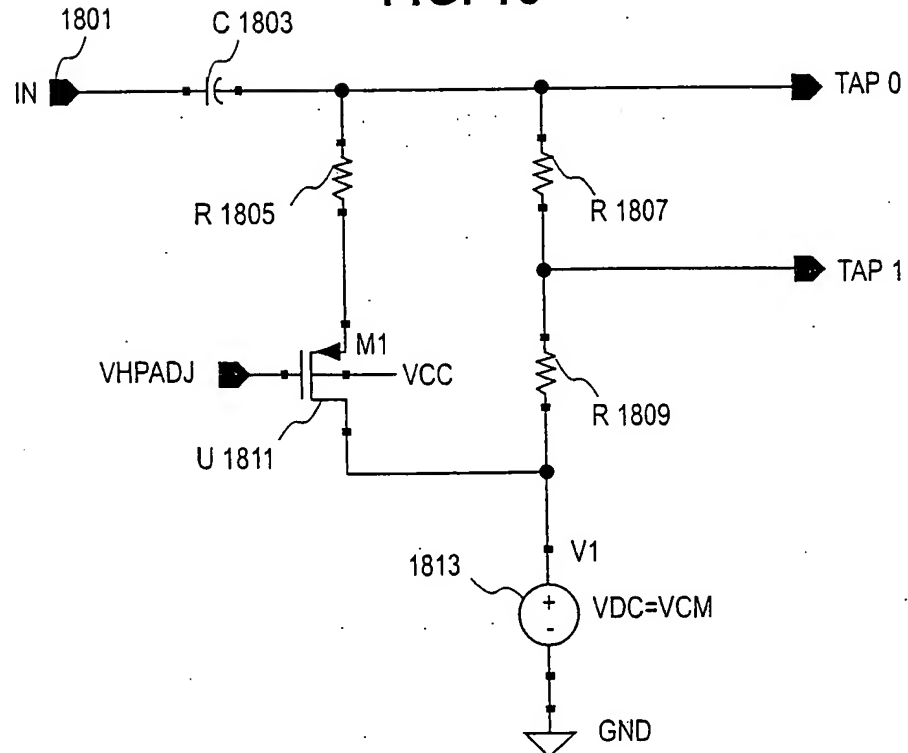
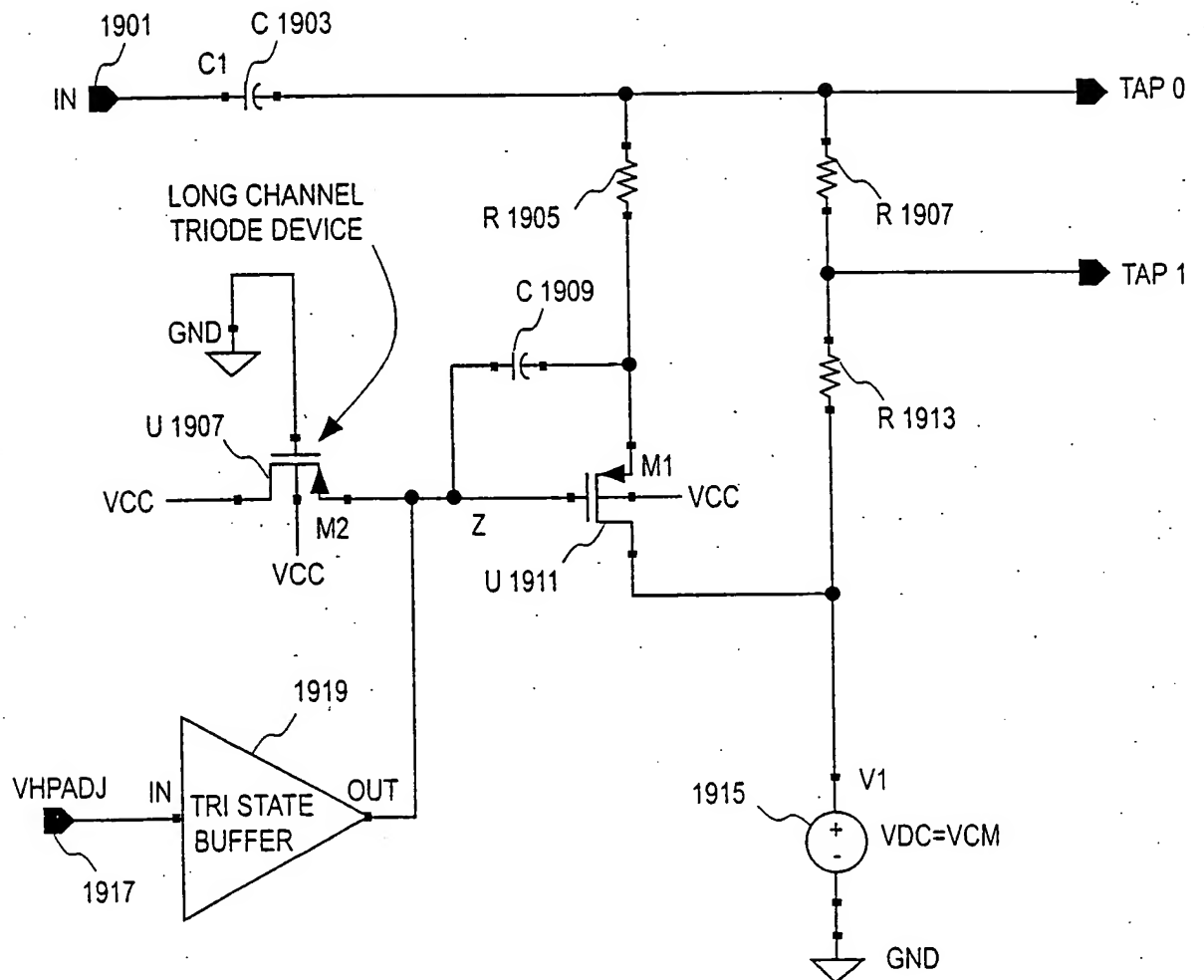


FIG. 19



16/28

FIG. 20

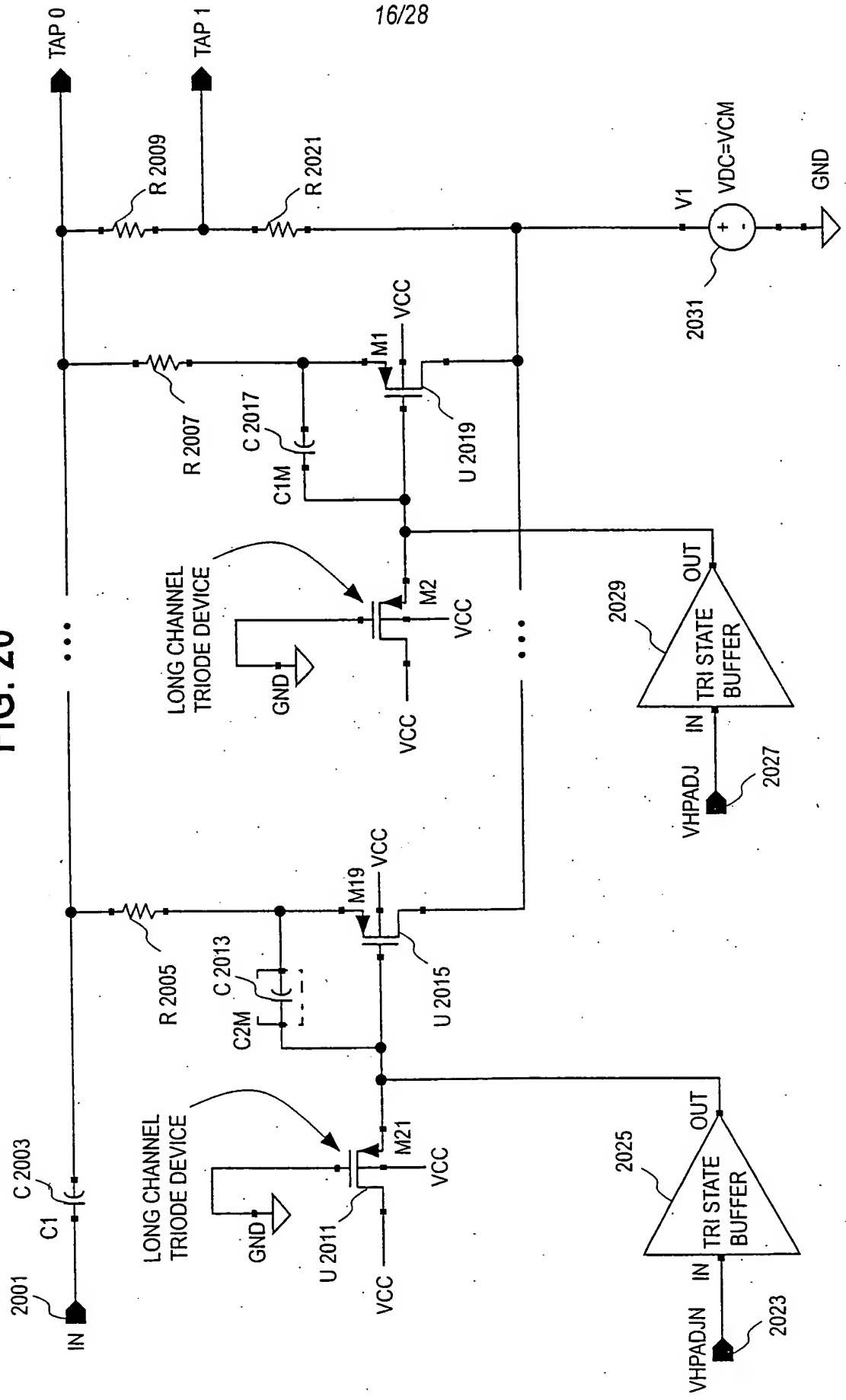
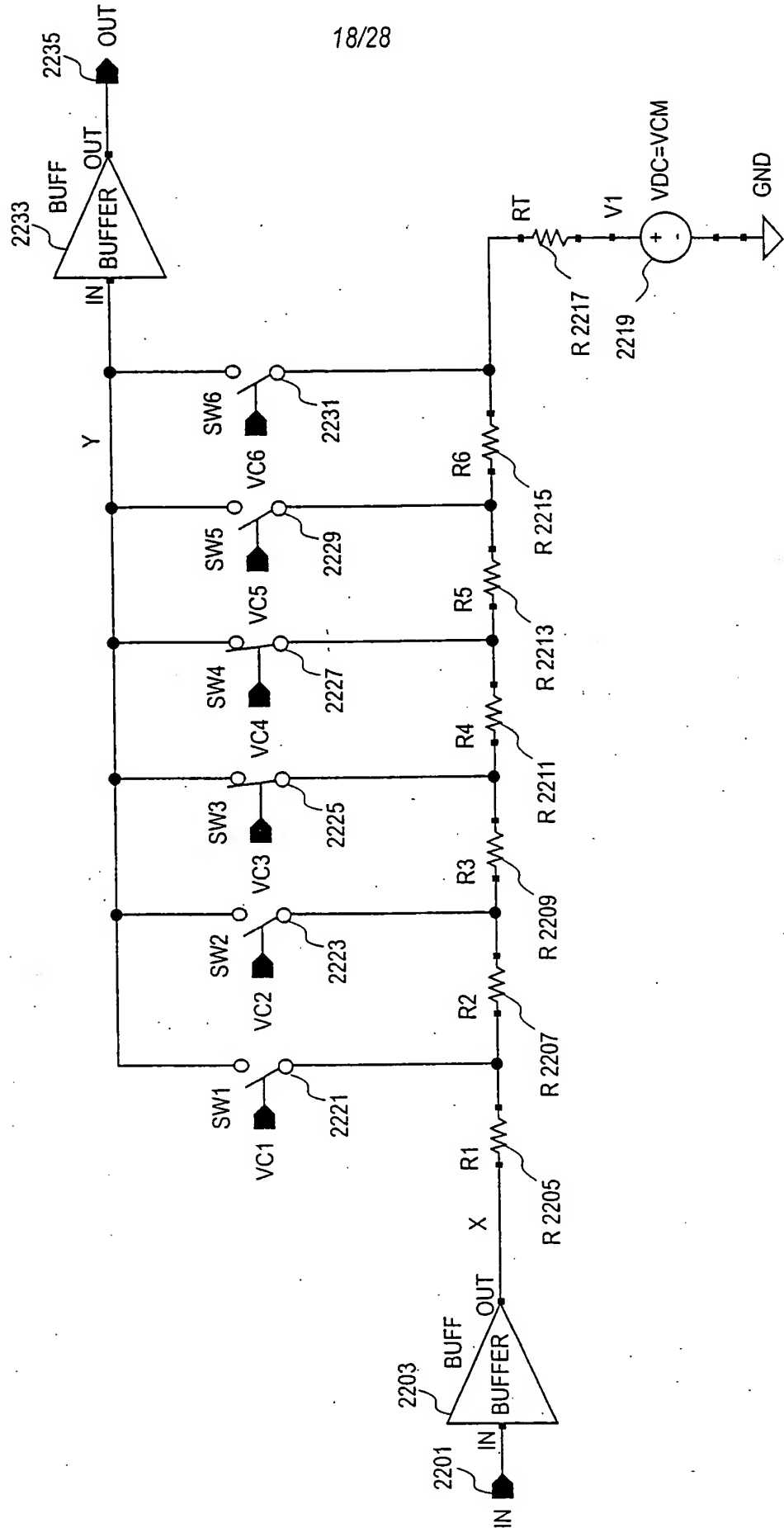
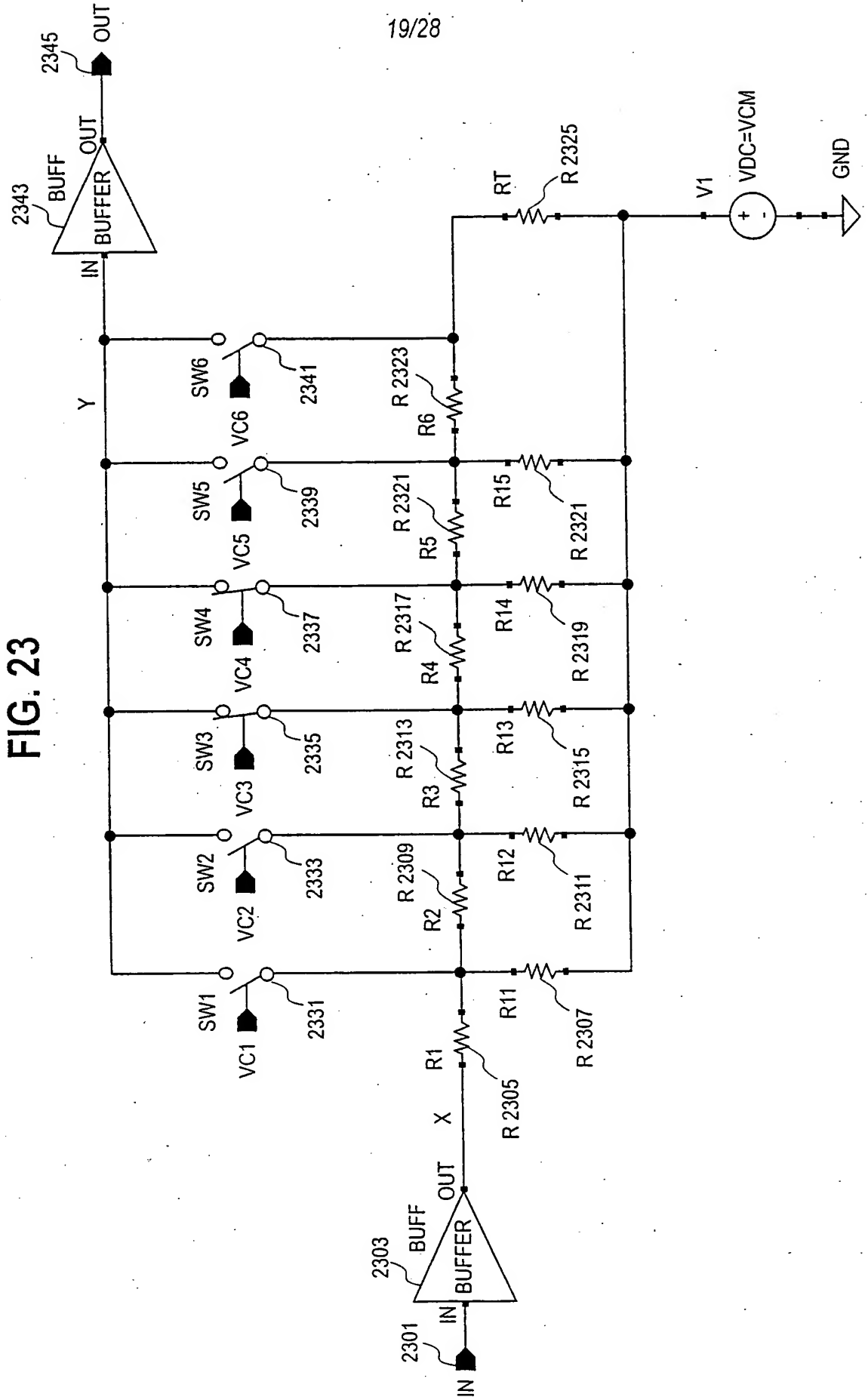


FIG. 22



19/28

FIG. 23



20/28

FIG. 24

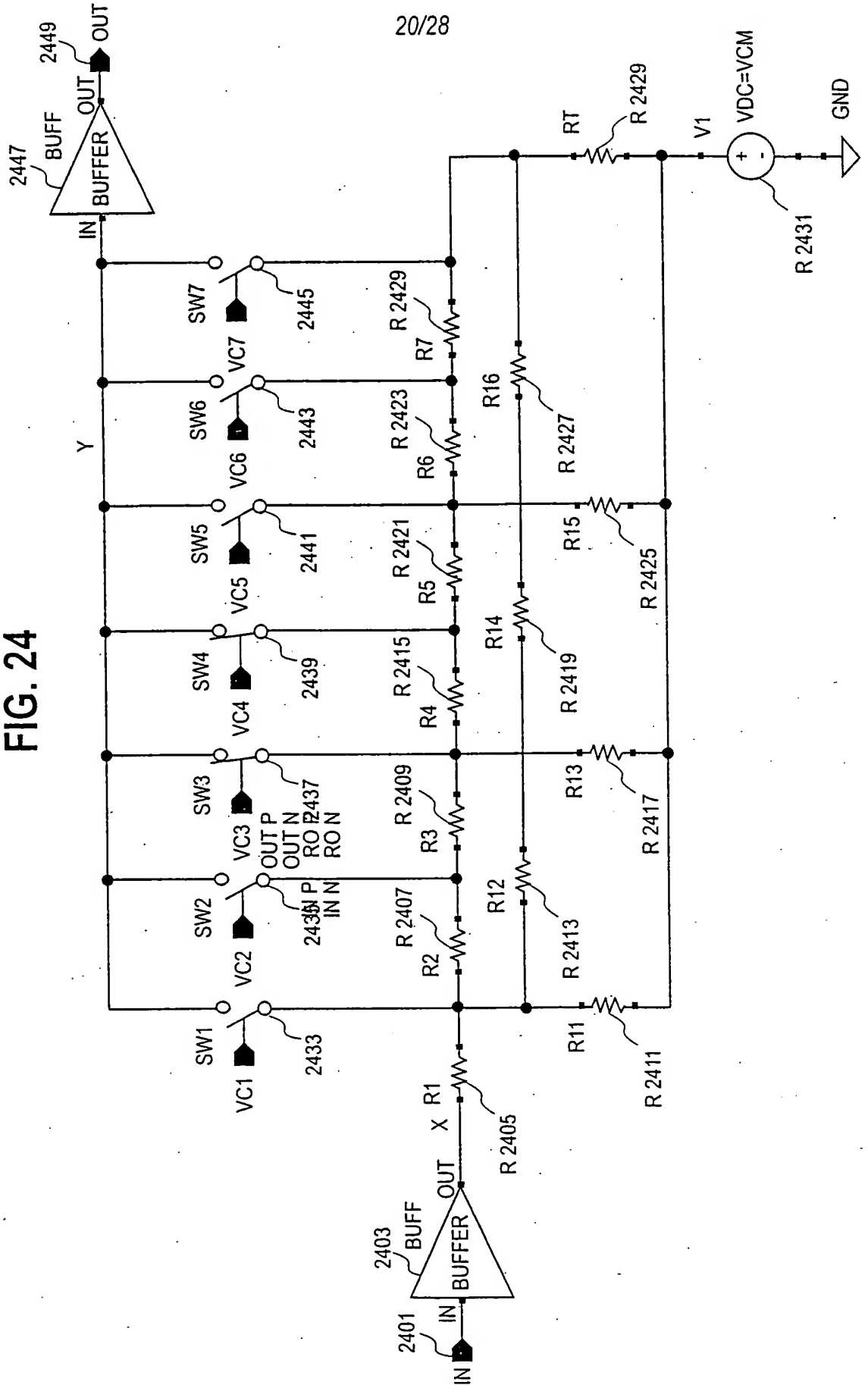
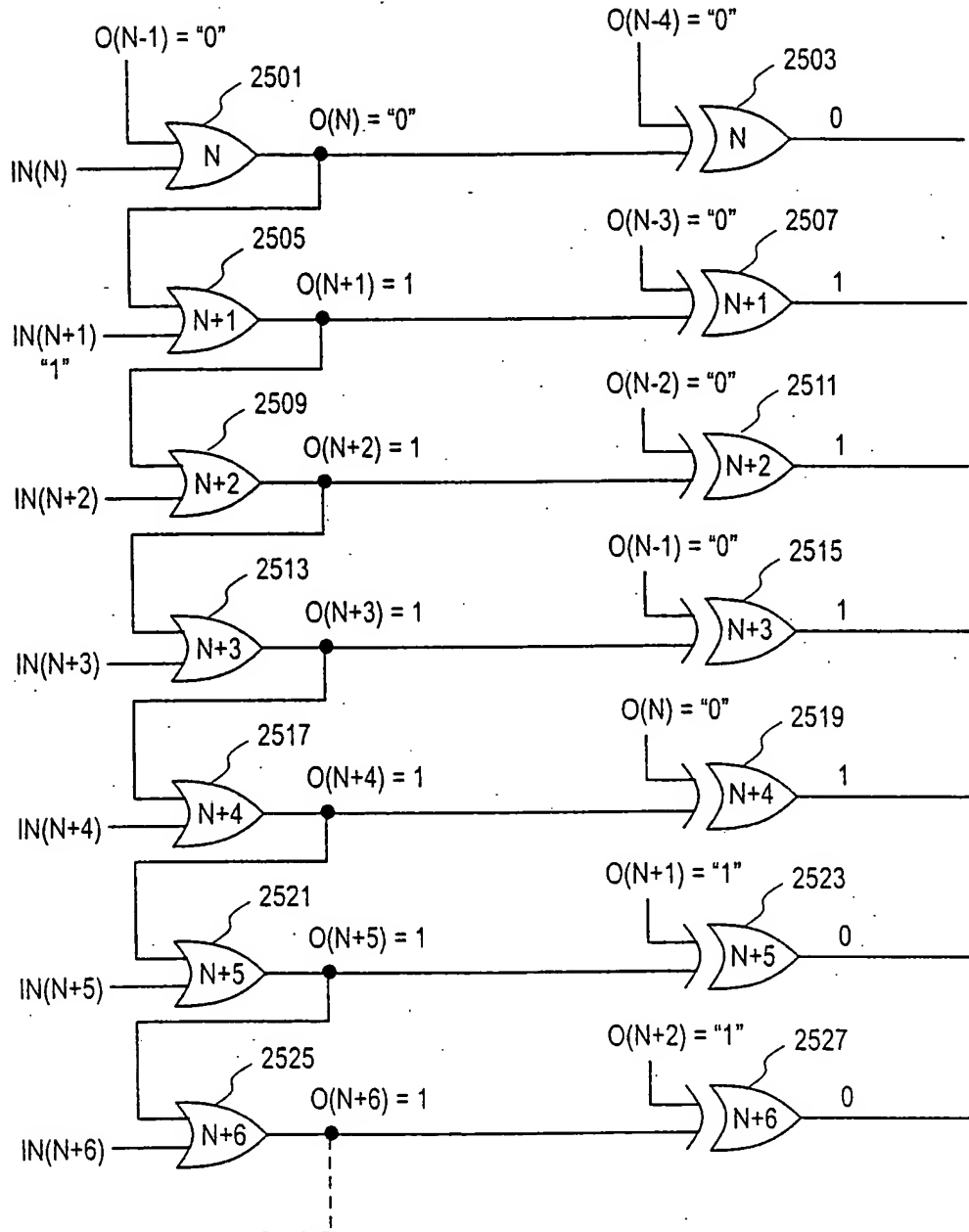


FIG. 25



23/28

FIG. 27

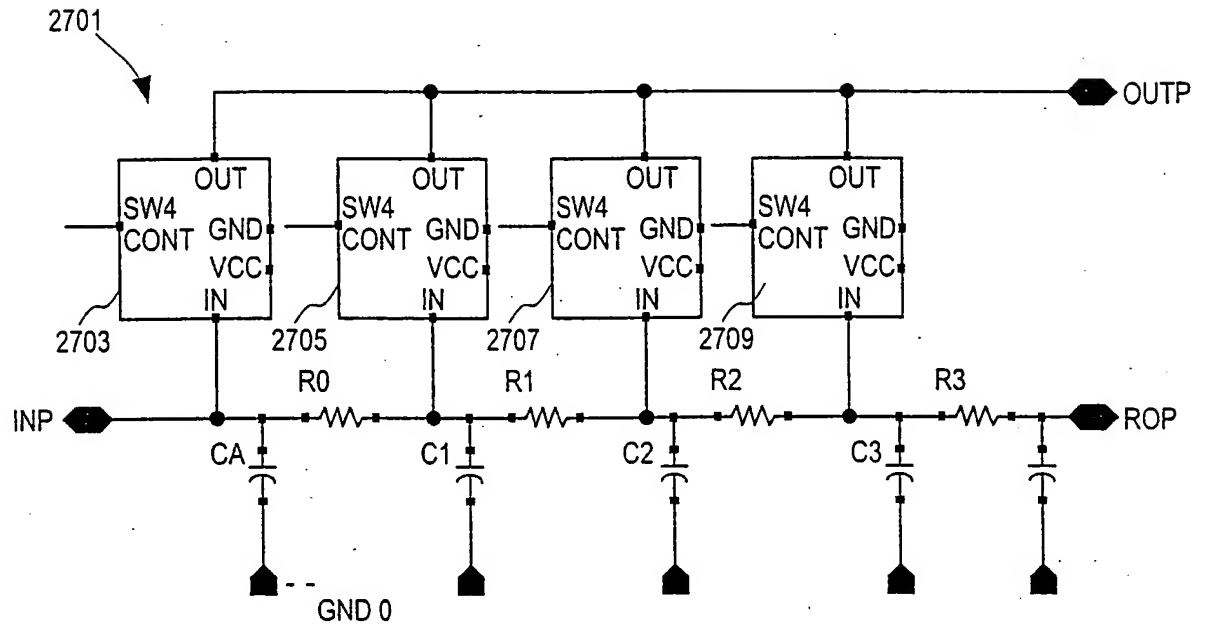
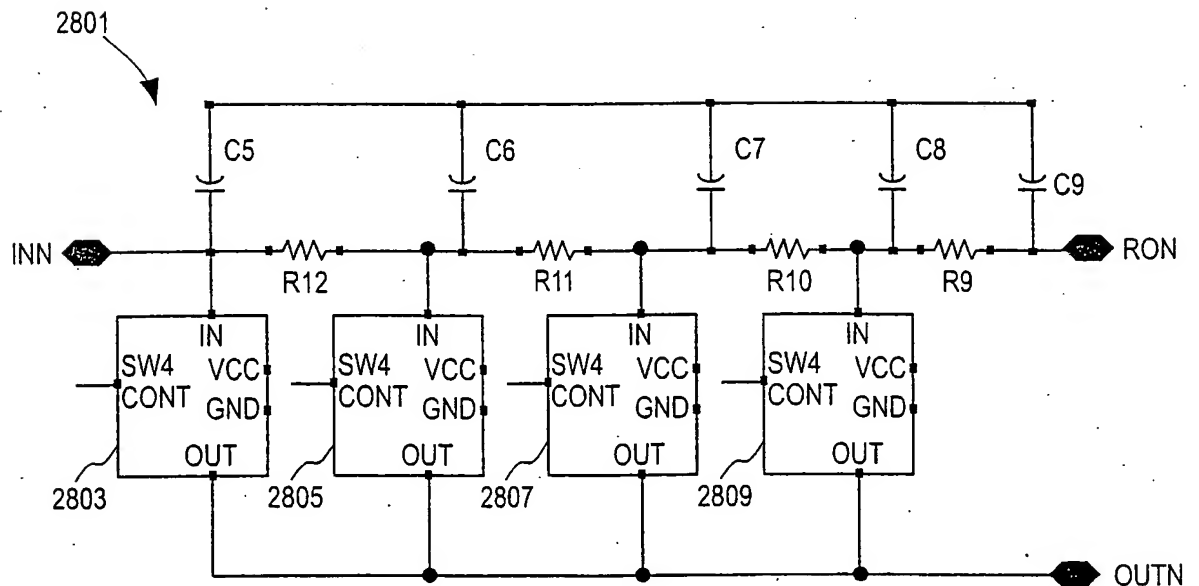
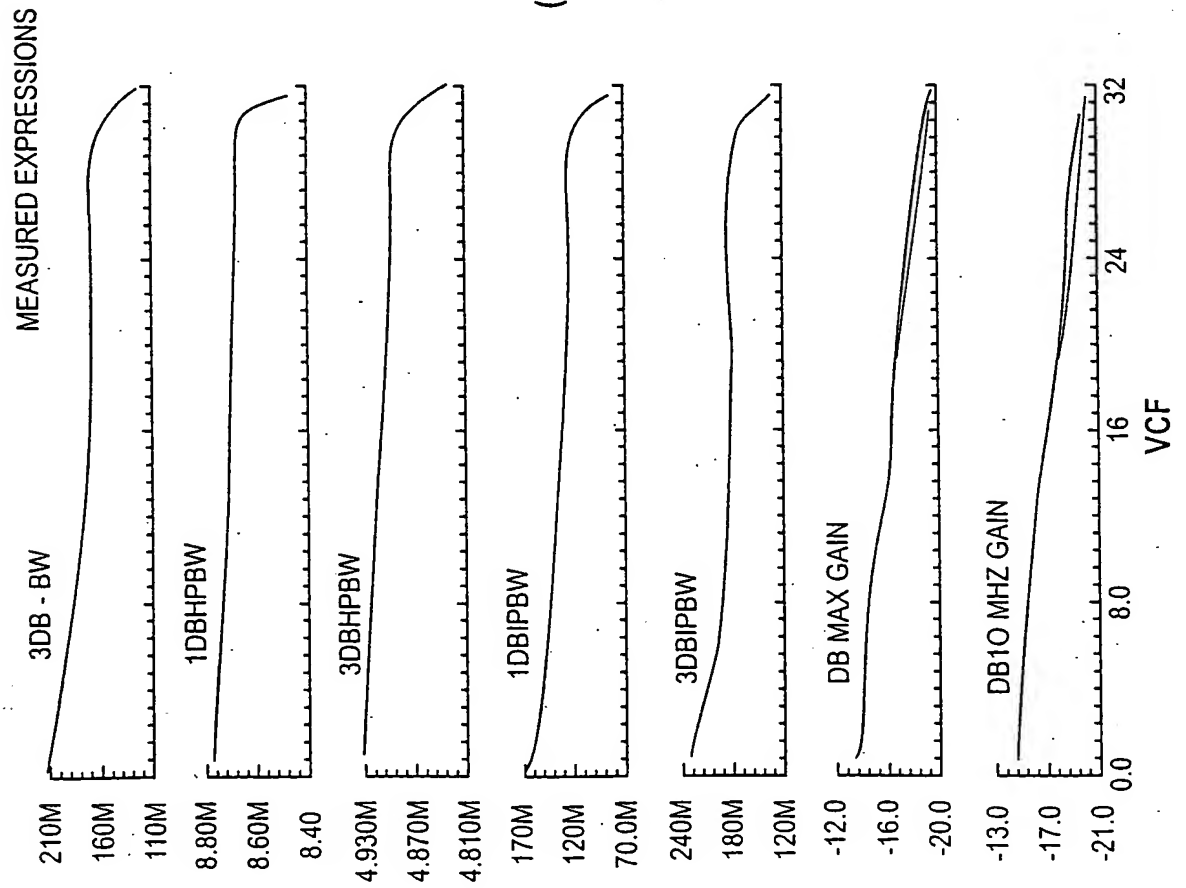
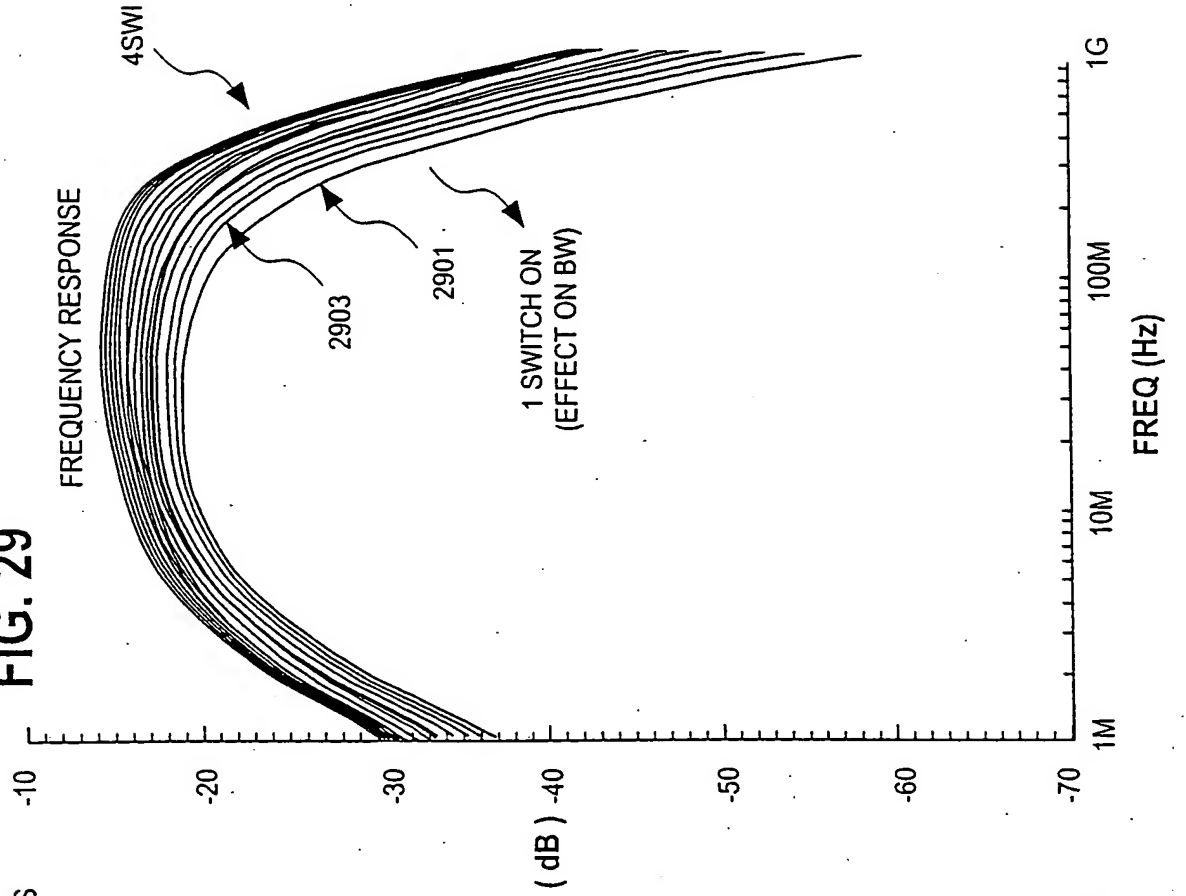


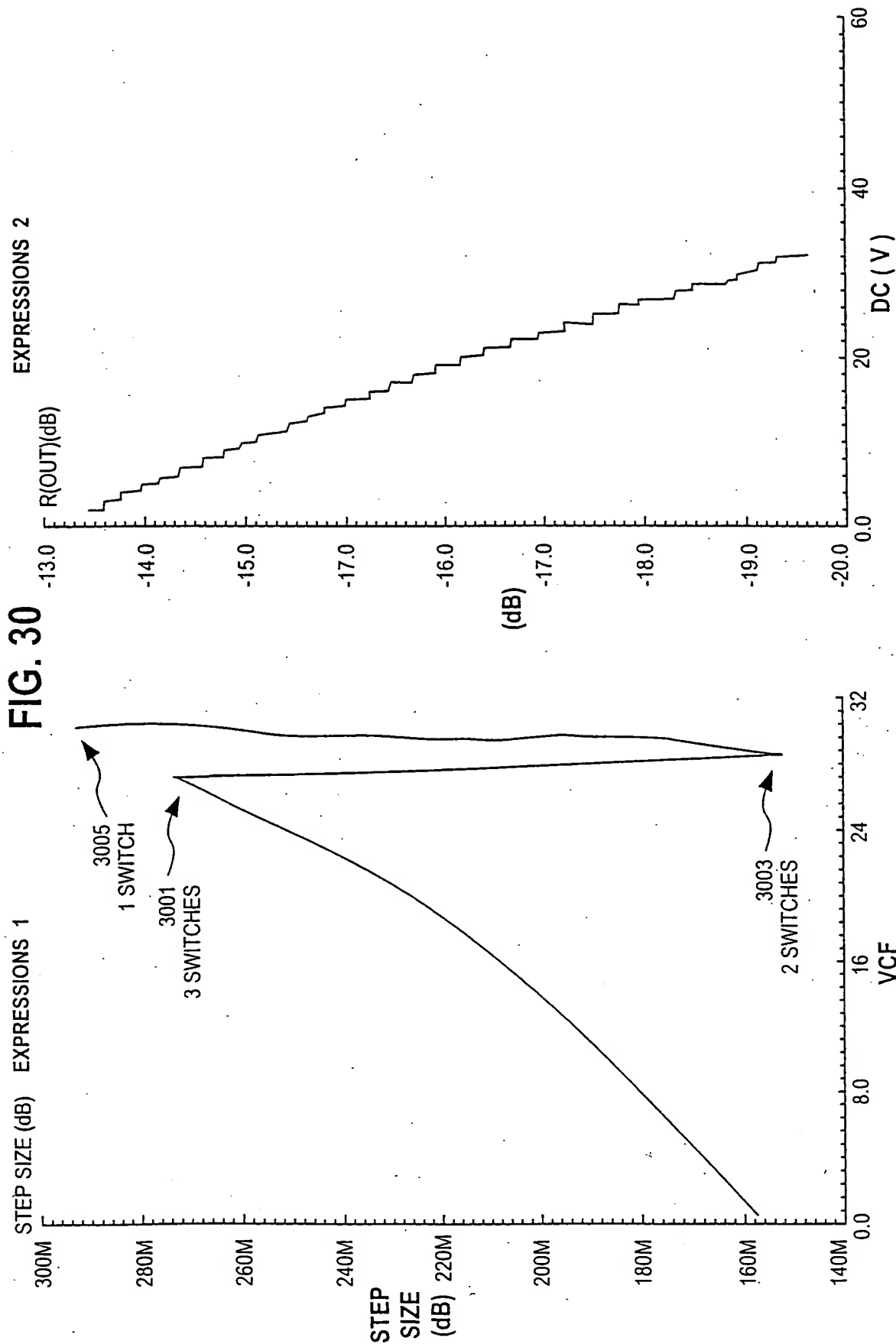
FIG. 28



24/28

FIG. 29





26/28

FIG. 31

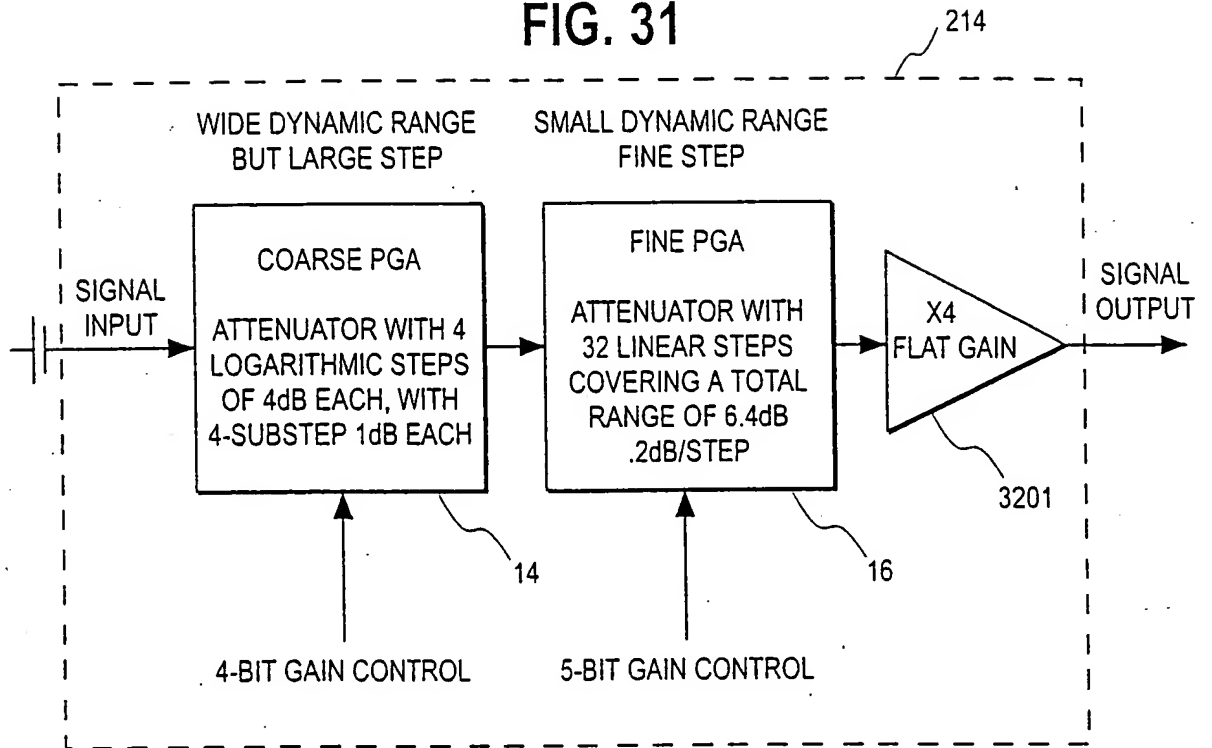


FIG. 32

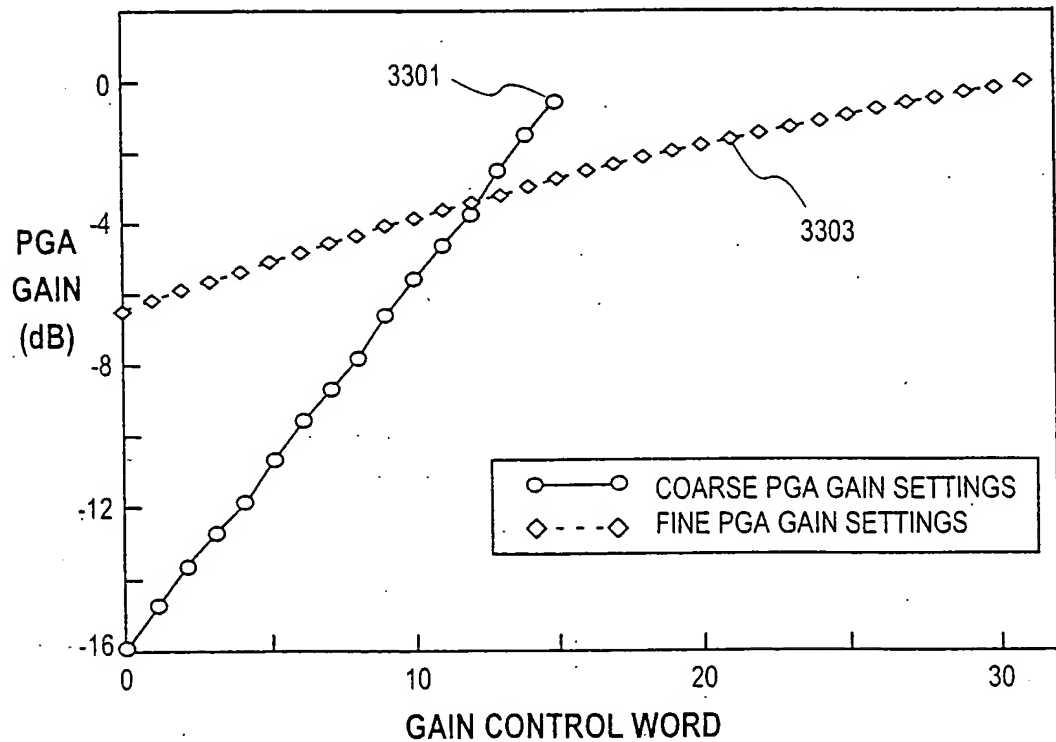
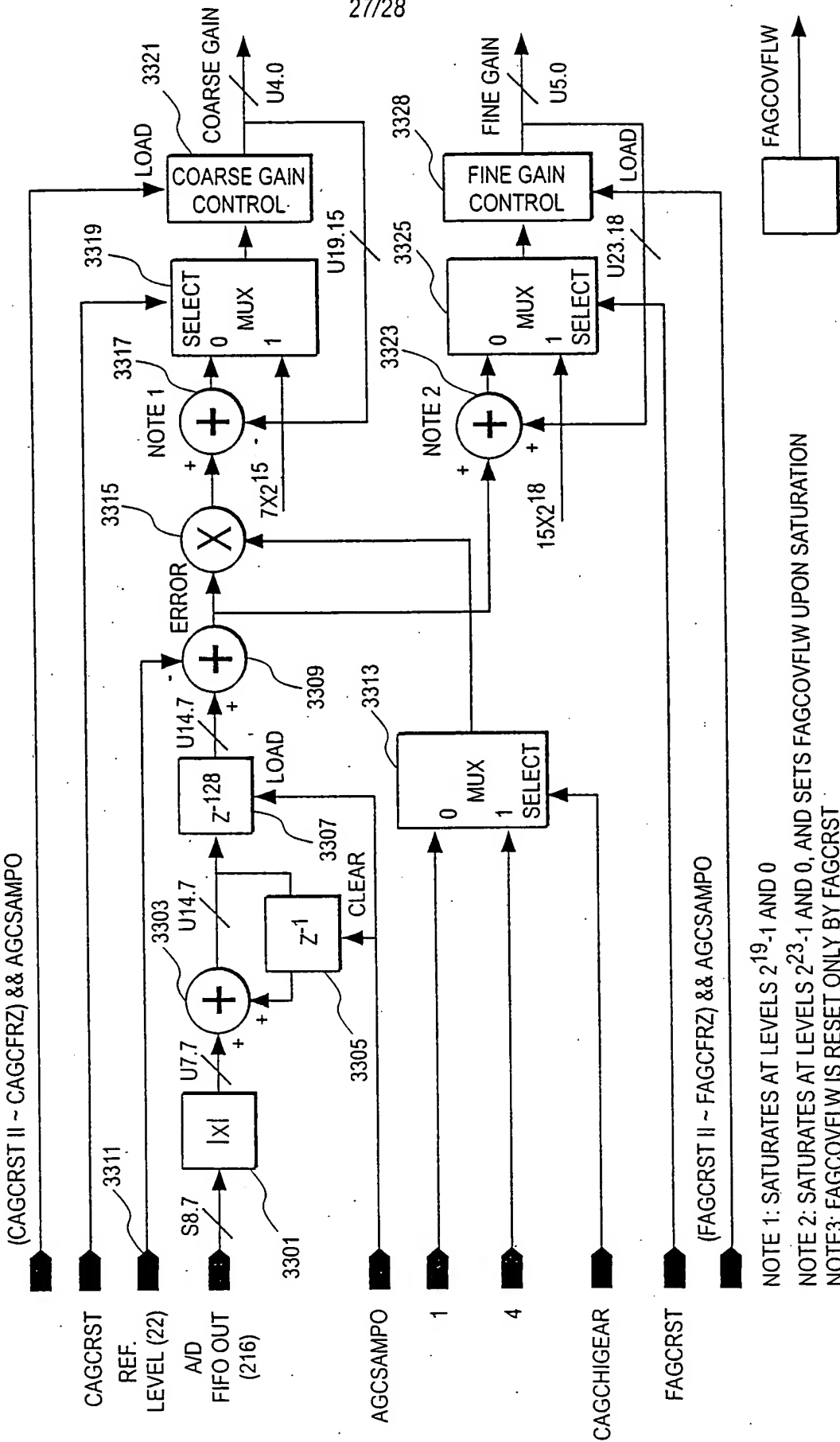


FIG. 33



28/28

FIG. 34

| CABLE LENGTH (m) | 100 BASE- TX | GIGABIT, 100 OHM | GIGABIT, 85 OHM | GIGABIT, 115 OHM |
|---------------------|-----------------|---------------------|--------------------|---------------------|
| 0 | 3.691281 | 4.193192 | 4.193192 | 4.193192 |
| 20 | 3.806628 | 4.501316 | 4.362110 | 4.291369 |
| 40 | 3.877284 | 4.528136 | 4.457336 | 4.429949 |
| 60 | 3.894216 | 4.733644 | 4.695307 | 4.646305 |
| 80 | 4.055372 | 4.878569 | 4.847844 | 4.810019 |
| 100 | 4.225522 | 4.983545 | 4.991296 | 4.968900 |
| 120 | 4.357733 | 5.134131 | 5.194401 | 5.154263 |
| 140 | 4.556012 | 5.266919 | 5.380943 | 5.366309 |
| 160 | 4.764462 | - | - | - |

$$\begin{aligned} \text{TARGET } E\{IXI\} &= A/D \text{ CLIPPING LEVEL} \times (E\{IXI\}/\text{RMS})/(\text{PEAK}/\text{RMS}) \\ &= 127 \times 0.7979/5.2 = 20 \end{aligned}$$